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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/762,582	04/12/2001	Akihisa Hongo	2001-0133A	5731		
513 7	7590 06/10/2005		EXAMINER			
	TH, LIND & PONACI	PHASGE, ARUN S				
2033 K STREE SUITE 800	ET N. W.	ART UNIT	PAPER NUMBER			
WASHINGTON, DC 20006-1021			1753	1753		
			DATE MAILED, 06/10/2004	DATE MAIL ED. 06/10/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	<u> </u>								
		Application N	lo.	Applicant(s)					
Office Action Summary		09/762,582		HONGO ET AL.					
		Examiner		Art Unit					
		Arun S. Phase		1753					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status				·					
1)⊠	Responsive to communication(s) filed of	on <i>21 April 2005</i> .			•				
•	This action is FINAL . 2b)⊠ This action is non-final.								
3)□									
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims									
5)□ 6)⊠ 7)□	Claim(s) 36,37,39 and 41-51 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 36,37,39 and 41-51 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.								
Applicat	ion Papers								
9)☐ The specification is objected to by the Examiner.									
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.									
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority (under 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
Attachmen	nt(s)								
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)									
3) 🛛 Infor	mation Disclosure Statement(s) (PTO-1449 or PTO- r No(s)/Mail Date 4/24/05		Notice of Informal P)-152)				

Application/Control Number: 09/762,582

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DETAILED ACTION

Claim Rejections - 35 USC \$ 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 36, 37, 41, 48-51 are rejected under 35 U.S.C. 103(a) as being obvious over Hanson applied as of record in view of Dordi et al. (Dordi), U.S. Patent 6,267,853 and in view of JP 05-331653 A ("JP '653") applied as of record.

The Hanson patent is applied as of record in the prior Office action. The Hanson patent does not disclose the electroless-plating unit, since it uses CVD method. The Dordi patent teaches problems associated with the use of CVD (see col. 1, lines 28-31) and discloses the use of electroless plating before the electrolytic plating having the improved results (see column 3, line 45 to column 4, line 25). The reference further discloses the turntable for holding the substrate so that the substrate is cleaned and dried after the electroless plating process (see col. 14, lines 14-23). The reference further discloses the cleaning nozzle and the rotation at a high speed to dry the substrate after the electroless plating process (see col. 14, lines 14-23).

Consequently, the invention as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the disclosure of the Hanson patent with the teachings of the Dordi patent, because the Dordi patent teaches the use of the turntable with the cleaning nozzle to clean and dry the substrate after electroless plating allows the formation of improved electroplated layers.

The Japanese reference discloses the electroless-plating unit as shown in the prior Office action.

Claim 39 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hanson in view of Dordi and Japanese 05-331653 as applied to claims above, and further in view of Ting of record for reasons of record.

Claims 42-47 rejected under 35 U.S.C. 103(a) as being unpatentable over Hanson in view of Dordi and Japanese 05-331653 as applied to claims above, and further in view of Dahms '171 or Dahms '840 of record for reasons of record.

Response to Arguments

Applicant's arguments, see pages 6-7 of the response, filed 4/14/05, with respect to the rejection(s)of claim(s) 36, 37, 39, 41-51 under 103 have been fully

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considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Dordi patent in combination with the Hanson and Japanese patents as discussed above.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arun 5. Phasge whose telephone number is (571) 272-1345. The examiner can normally be reached on MONDAY-THURSDAY, 7:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam X. Nguyen can be reached on (571) 272-1342. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Arun S. Phasge

Primary Examiner

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